CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

No. : CTCE/BBMP/KRIDL/PMC/DD/2021/04

Date: 26.02.2021

To,
Executive Engineer,
Dasarahalli Division,
Dasarahalli Zone, BBMP,
Bangalore.

CERTIFICATE

Reference : BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020

Name of work: Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.

This is to certified that the 1st and Final Bill of the above said work has been executed satisfactorily and the quantities of work done has also been certified.

Thanking you,

With Regards,

For Civil-Tech Consultants and Engineers

26/2/2021

Authorized Signature

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ಬಾಂಗಳೂರು. ಜಿ.ಬಿ.ಎಂ.ಪಿ

EXECUTIVE ENGINEER
Bruhat Bengaluru Mahanagara Palike
Dasarahalli Division, Bengaluru-73

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Date:26.02.2021

To,
Executive Engineer,
Dasarahalli Division,
Dasarahalli Zone, BBMP,
Bangalore.

COMPLIANCE REPORT

Dear Sir,

Reference : BBMP/EE/DD/WO/592/2019-20 Dated: 18.03.2020

Name of Work: Improvement to roads and drains at Kalahasthi Nagara in Ward No.15, Dasarahalli Sub Division, BBMP, Bangalore.

With respect to the above subject & name of the work, we have supervised the work and the quantity and quality of below mentioned items of the work was found to be completed satisfactorily for the 1st and Final Bill.

Sl. No	Description of Work	Unit	Qty
1	Dismantiling of Existing Structures like Culverts, bridges, retaining walls, and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P, and Scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications II by Mechanical Means. A cement concrete grade M15 & M20.	Cum	51.20
2	Removing B.S Slab Drain & Stacking	Sqm	132.30
3	Earthwork Excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed the disposed earth to be levelled neatly after breaking of clods complete as per specifications.	Cum	417.01
4	Providing and laying in Position plain cement Concrete mix 1:3:6 with OPC cement @ 220kgs, with 20mm and downsize graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.56 cum machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation, plinth and cills including cost of materials, labours, HOM Curing complete as per specifications.	Cum	43.18
6	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting bending, hooking, placing in position, lapping and welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. Specification No.KBS 4.6.3, TMT bars Fe500	Tonnes	3.70
5	Providing and laying design mix M25 with OPC cement @ 340kgs, with 20mm downsize graded granite metal course aggregates @ 0.70 cum and fine aggreates @ 0.47 cum with super plasticizer @ 3 lts confirming to IS9103-1999 Reaffirmed - 2008. i) Upto 5m height	Cum	26.56

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Sl. No	Description of Work	Unit	Qty
5	Providing and laying design mix M25 with OPC cement @ 340kgs, with 20mm downsize graded granite metal course aggregates @ 0.70 cum and fine aggreates @ 0.47 cum with super plasticizer @ 3 lts confirming to IS9103-1999 Reaffirmed - 2008. i) Upto 5m height	Cum	61.74
7	Removing and resetting of footpath slab	Sqm	327.60
8	Providing ruled pointing 20 mm deep to stone slab pavements with cement mortar 1:3, 20mm deep, after raking joints nicely lining, including cost of materials, labour, curing etc., complete as per specifications	Sqm	327.60
9	Providing and fixing precast RCC cover slabs of 100mm thick for drain in cement Concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surface on both sides etc, and complete as per the directions of engineer in charges.	Sqm	1085.40
10	Dismantling of Cement Concrete Pavement by Mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stack piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications.	Cum	281.61
11	Scarifying kankar/gravel/metal crust by mechanical means upto 150mm thick, disposal of stuff including cost of all labour charges, HOM complete as per specifications.	Sqm	2401.91
12	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.	Sqm	2401.91
14	Providing, laying, spreading and compacting stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum	240.14
13	Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and downsizegraded granite metal coarse aggregates at 0.86Cum and fine aggregates @ 0.58 cum over a prepared sub base coarse and fine aggregates conforming to IS 383-2016 aggragate cement ratio not exceeding to 15:1 aggragate gradation after blending to be as per table 600-1 optimum moisture content to be determined during trial length construction, concrete Strength not to be less than 10Mpa at 7 days mixed in hatching plant, transported to site, laid with paver compacting with 8-10 tonne vibratery roller, finishing and curing, complete as per Specification clause 601 of Morth V Revision and IS 456 Table 5 do with OPC at 150kg/cum coarse aggregate 0.86 cumfine aggragates 0.58 cum Concrete mix batch plant 75cum/hr capacity with fixed from paver.	Cum	240.14

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Sl. No	Description of Work	Unit	Qty
15	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared basewith OPC coarse aggragate at 0.69 cum, fine aggragates at 0.46 cum, Coarse and fine aggragate conforming to IS:383-2016,with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design,laid in approved fixed side form work (steel channel, layingand fixing of 125 micron thick polythene film, wedges, steelplates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer,joint sealant, admixtures as approved curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour hire charges of machineries, all lead & lift charges etc., completed as per specifications-do- with OPC at 360 Kg/cum and coarse aggregates 0.69 cum, fine aggregates 0.46Cum.	Cum	384.28
16	Cleaning the existing blck topped surface with brooms, soft bruches and finally dusting with old gunny bags and or/ compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.	Sqm	490.00
17	Providing and laying tack coat using 80/100 grade bitumen (VG 10) on the prepared black topped surfaces at 2.5 kg per 10 Sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per specifications.	Sqm	490.00
18	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. clause 507 of MORTH V Revision as per IRC SP-53-2015. -do- using 40-60 TPH capacity HMP with mechanical paver plastomeric thermoplastics (Waste Plastic)	Cum	19.60
19	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labourhire charges of machinery, loading, unloading, lead and lift, transportation etc.,Complete. (PW,P&IWTD SR 2018-19, Pg No. 27 Item No. 5.30.)	Nos	2636.00
20	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with material, labour complete as per specifications	Sqm	292.60

Civil Tech Consultants & Engineers Bangalore

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Sl. No	Description of Work	Unit	Qty
21	Removal of unserviceable soil including excavation, loading and disposal but excliding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specification.	Cum	417.01
22	Loading and unoading of stone boulder/stone aggregate/sand kanker/moorum.KSRRB M100.1: Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications	Cum	694.46
23	Cost of haulage excluding loading and unloading MORTH-100/Chapter 1 case-1 Surface road	Cum	1111.47
24	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications.		
	a) 40mm Jelly.	Cum	0.86
	b) 20mm Jelly.	Cum	0.86
	c) Coarse sand.	Cum	0.65
	d) Fine Sand.	Cum	0.43
	e) 12.5mm chips.	Cum	0.65
25	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984 - 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per televant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation. testing and commissioning. The rate is exclusive of required specials and fittings wherever neccessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN60.630 mm dia, (Perforated Pipe for Rain Water Harvesting Pit).	Rmts	12.60
26	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.	Sqm	2.17
5	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever neessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200-do- TMT Bars Fe 500.	Tonne	3.70

Thanking you,

With Regards,

For Civil-Tech Consultants and Engineers

26/2/2021

Authorized Signature

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